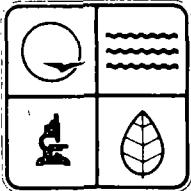


MISSOURI DEPARTMENT OF NATURAL RESOURCES
(314) 751-3241
Jefferson City, Missouri 65102
1915 Southridge Drive
P.O. Box 13668



Kerry
Site: CertainTeed
ID #: MO 980431142
Break: 1.5
Other: _____
1-18-82

January 18, 1982

Katie Biggs
EPA Region VII
324 East 11th Street
Kansas City, MO 64106

Dear Katie:

Enclosed is a copy of a memorandum of exposed asbestos waste on property previously operated by Certain-Teed Corporation. Apparently, this material became exposed as a result of the Metropolitan Sewer District (MSD) clearing brush prior to channelizing along Maline Creek.

You might want to include MSD in any remedial actions you may plan.

Please feel free to contact me at this office or Mike Duvall at the St. Louis Regional Office, (314) 849-1313, if you have any questions. Thank you for your cooperation in this matter.

Sincerely,

Lyle O. Crocker

Lyle O. Crocker
Environmental Specialist
Waste Management Program

LOC/bki

07LF 30290366 10

cc: St. Louis Regional Office

Barcode

Superfund

Enclosure

0400

...ARHJM/SWMG

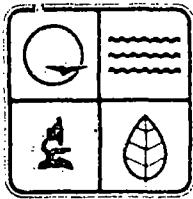
JAN 20 1982

Region VII K.C., MO

Christopher S. Bond Governor
Fred A. Lafser Director

Division of Environmental Quality
Robert J. Schreiber Jr., P.E. Director

MISSOURI DEPARTMENT OF NATURAL RESOURCES



MEMORANDUM

Date: January 8, 1982
To: Art Groner, Central Office, Waste Management Program
From: Mike Duvall, St. Louis Regional Office
Subject: CERCLA Notification Site Inspection - Certainteed Corporation

Site Inspection report forms attached.

This site constitutes $\frac{1}{2}$ of the GAF-Certainteed Corporation asbestos waste pile project previously resolved by both U.S. EPA and our office. See enclosed letters dated April 28, 1980 and June 2, 1980 on this subject.

As noted on the form report, I observed during my most recent site visit that some exposed asbestos slag materials are now visible along the creek bank at the extreme NW corner of the area. These wastes became apparent over the past few months since some tree/brush clearing work started along the banks of Maline Creek preparatory to future channelization of the stream by MSD. The area in question is a relatively small part of the original closure project, and the decision was made during the plan review stage 2 years ago to leave it in an undisturbed state. This material is now subject to sloughing off with fluctuating stream flow and therefore poses some degree of concern. Any additional removal and/or stabilization actions here should probably be coordinated with the MSD.

To summarize, the vast majority of the asbestos waste pile has been satisfactorily stabilized, with the exception of the small area noted above.

MD/jk
Enclosure

SITE INSPECTION REPORT

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System, Hazardous Waste Enforcement Task Force (EN-JJS), 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME CERTAINTEED CORP.	B. STREET (or other identifier) 600 ST. CYR RD.		
C. CITY ST. LOUIS	D. STATE MO	E. ZIP CODE 63137	F. COUNTY NAME —
G. SITE OPERATOR INFORMATION			
1. NAME CERTAINTEED CORP.	2. TELEPHONE NUMBER (215) 542 0500		
D. STREET P.O. BOX 860	E. CITY VALLEY FORGE	F. STATE PA	G. ZIP CODE 19482
H. REALTY OWNER INFORMATION (if different from operator of site)			
1. NAME SAME	2. TELEPHONE NUMBER		
3. CITY —	4. STATE —	5. ZIP CODE —	

I. SITE DESCRIPTION

ASBESTOS DISPOSAL AREA ON INDUSTRIAL TRACT

J. TYPE OF OWNERSHIP

1. FEDERAL 2. STATE 3. COUNTY 4. MUNICIPAL 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM		
	<input type="checkbox"/> 1. HIGH	<input type="checkbox"/> 2. MEDIUM	<input type="checkbox"/> 3. LOW
	<input type="checkbox"/> 4. NONE		

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
---------	---------------------	---------------------------

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME MIKE DUVALL	2. TITLE ENV. SPECIALIST	3. TELEPHONE NO. (area code & no.) 314 849 1313
2. ORGANIZATION MO DNR - ST. LOUIS REG.		

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
M. DUVALL		AS ABOVE

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
WM. BLAKESLEE	ENV. ENGINEER 215 542 0500	CERTAINTEED CO. — AS ABOVE

D. GENERATOR INFORMATION (Source of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
CERTAINTEED	CORP. - SEE PG. 1		ASBESTOS

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
N/A - ASBESTOS SLAG & SCRAP DEPOSITED IN PAST ON GROUND			
ADJACENT TO FACTORY BLDGS.			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
N/A		

G. DATE OF INSPECTION (mon, day, & year)
12-10-81 H. TIME OF INSPECTION
3:30 PM I. ACCESS GAINED BY: (credentials must be shown in all cases)
 1. PERMISSION 2. WARRANT

J. WEATHER (describe)

T~40°F; PARTLY CLEAR; SLIGHT WIND

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE		TAKEN	
d. AIR	NO NE		
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
N/A		

V. SAMPLING INFORMATION (C)

C. PHOTOS

1. TYPE OF PHOTOS

 A. GROUND B. AERIAL

C. SITE MAPPED?

 YES. SPECIFY LOCATION OF MAPS:
CLOSURE PLAT

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

PART OF LOTS 6,7,8 OF U.S. SURV. B, T461

2. LONGITUDE (deg.-min.-sec.)

7E, ST. LOUIS CO., MO

V. SITE INFORMATION

A. SITE STATUS

1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

2. INACTIVE (Those sites which no longer receive wastes.)

3. OTC (Those sites where no waste has occurred recently):

or include such incidents like "midnight dumping" or continuing use of the site for waste disposal

B. IS GENERATOR ON SITE?

1. NO 2. YES (specify generator's four-digit SIC Code):

N/H - PAST DISPOSAL PRACTICE: COMP. LOCATED

C. AREA OF SITE (In acres)

~15

D. ARE THERE BUILDINGS ON THE SITE?

1. NO 2. YES (specify):

FACTORY BLDGS.

VI. CHARACTERIZATION OF SITE

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

A. TRANSPORTER	B. STORER	C. TREATER	D. DISPOSER
1. MAIL	1. PILE	1. FILTER	1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	3. DRUMS	3. VOLATILIZATION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEMICAL/TREATMENT	5. MIDNIGHT DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WATER REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.

1. STORAGE 2. INCINERATION 3. LANDFILL 4. SURFACE IMPOUNDMENT 5. DEEP WELL

6. CHEM/BIO/PHYS TREATMENT 7. LANDFARM 8. OPEN DUMP 9. TRANSPORTER 10. RECYCLER/RECLAIMER

VII. WASTE RELATED INFO

A. WASTE TYPE

1. LIQUID 2. SOLID 3. SLUDGE 4. GAS

B. WASTE CHARACTERISTICS

1. CORROSIVE 2. IGNITABLE 3. RADIOACTIVE 4. HIGHLY VOLATILE

5. TOXIC 6. REACTIVE 7. INERT 8. FLAMMABLE

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

N/A

2. Estimate the amount (specify unit of measure) of waste by category. mark 'X' to indicate which wastes are present.

A. SLUDGE	B. OIL	C. SOLVENTS	D. CHEMICALS	E. SOLIDS	F. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
X (1) PAINT, PIGMENTS	X (2) OILY WASTES	X (3) HALOGENATED SOLVENTS	X (4) ACIDS	X (5) FLYASH	X (6) LABORATORY, PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER(specify):	(2) NON-HALOGENATED SOLVENTS	(2) PICKLING LIQUIDS	X (2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER(specify)	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELT- ING WASTES	(4) MUNICIPAL
(5) OTHER(specify):			(5) DYES/INKS	(5) NON-FERROUS SMELT. WASTES	(5) OTHER(specify):
			(6) CYANIDE		
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER(specify)		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

VII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

A. HUMAN HEALTH HAZARDS

VIII. HAZARD DESCRIPTION (continued)

 B. NON-WORKER INJURY/EXPOSURE C. WORKER INJURY/EXPOSURE D. CONTAMINATION OF WATER SUPPLY E. CONTAMINATION OF FOOD CHAIN F. CONTAMINATION OF GROUND WATER G. CONTAMINATION OF SURFACE WATER

SOME SCRAP PIPE AND OTHER ASBESTOS-CONTAINING DEBRIS REMAINS EXPOSED ALONG SMALL STRETCH OF CREEK BANK AT NW CORNER OF SITE. THESE WASTE RESIDUALS WERE NOT ACCOUNTED FOR DURING PREVIOUS SITE STABILIZATION WORK, & BECAME VISIBLE AS A RESULT OF RECENT STREAM BANK VEGET. CLEARING PROJECT PREPARATORY TO FUTURE STORM CHANNEL IMPROVEMENTS OF MALINE CREEK BY THE

VIII. HAZARD DESCRIPTION (continued)

H. DAMAGE TO FLORA/FAUNA

I. FISH KILL

J. CONTAMINATION OF AIR

K. NOTICEABLE ODORS

L. CONTAMINATION OF SOIL

M. PROPERTY DAMAGE

O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

P. SEWER, STORM DRAIN PROBLEMS

Q. EROSION PROBLEMS

SEE SECT. G.

R. INADEQUATE SECURITY

S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

 T. MIDNIGHT DUMPING U. OTHER (specify):

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	150	SAME	6	~130'
2. IN COMMERCIAL OR INDUSTRIAL AREAS	70	"	4	~30'
3. IN PUBLICLY TRAVELED AREAS	SITE BORDERS	MEDIUM USE COUNTY RD.		
4. PUBLIC USE AREAS (parks, schools, etc.)	NURSING HOME WITHIN ~350'			

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) R,	B. DIRECTION OF FLOW R,	C. GROUNDWATER USE IN VICINITY NONE
D. POTENTIAL YIELD OF AQUIFER R,	E. DISTANCE TO DRINKING WATER SUPPLY (specify units of measure) INTAKE N/A - UPSTREAM	F. DIRECTION TO DRINKING WATER SUPPLY NE (UPSTREAM)
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY <10 CONNECTIONS	<input checked="" type="checkbox"/> 2. COMMUNITY (specify town): >10 CONNECTIONS	<u>CITY ST. LOUIS - CHAIN OF ROCKS</u> <u>WTP ON MISS. RIVER</u>
<input checked="" type="checkbox"/> 3. SURFACE WATER	<input type="checkbox"/> 4. WELL	

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
NAME	CAVANNA			

I. RECEIVING WATER

1. NAME

MALINE CREEK

 2. SEWERS 3. STREAMS/RIVERS 4. LAKES/RESERVOIRS 5. OTHER(specify):

G. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

- PROB. CLASS P

- LIMITED, IF ANY USAGE; TRAVERSSES METRO AREA FOR STORM DRAINAGE

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

- A. KNOWN FAULT ZONE B. KARST ZONE C. 100 YEAR FLOOD PLAIN D. WETLAND
- E. EDGE BORDERS F. CRITICAL HABITAT G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. COVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND				
X	2. CLAY - SILT				
	3. GRAVEL				

XIII. SOIL PERMEABILITY

- A. UNKNOWN B. VERY HIGH (.100,000 to 1000 cm/sec.) C. HIGH (.1000 to 10 cm/sec.)
- D. MODERATE (.10 to .1 cm/sec.) E. LOW (.1 to .001 cm/sec.) F. VERY LOW (.001 to .0001 cm/sec.)

G. RECHARGE AREA

1. YES 2. NO 3. COMMENTS: R N/A

H. DISCHARGE AREA

1. YES 2. NO 3. COMMENTS:

I. SLOPE

J. ESTIMATE % OF SLOPE K. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

3; 1 MAX AT EDGES TO W, GENERALLY FOLLOWING CRK. SLOPES STABLE.

L. OTHER GEOLOGICAL DATA

N/A

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

NONE **YES** (summarize in this space)

MO DNR - ST. LOUIS REG. PREVIOUSLY WORKED WITH CERTAINTEED AND
NEIGHBORING GAF CORP. TO ATTAIN SURFACE STABILIZATION OF ADJOINING,
CONTIGUOUS ASBESTOS SLAG PILE.

REG. OFFICE HAS FILE HISTORY ON TOTAL PROJECT.

SITUATION BASICALLY RESOLVED TO MO DNR SATISFACTION THROUGH VOLUNTARY COMPLIANCE. SEE ALSO ATTACHED LETTER OF 6-2-80 FROM DNR TO COMPANY.

U.S. EPA HAD ALSO PREVIOUSLY ISSUED ADMINISTRATIVE ORDER TO COMPANY
ON 2-26-79 TO CORRECT ASBESTOS PROBLEMS IN TERMS OF BOTH WASTE
PILE AND WASTEWATER DISCHARGE.

SEE ATTACHED LETTER OF 4-28-80 FROM EPA TO COMPANY VERIFYING
EPA APPROVAL OF CLOSURE ACTIONS TAKEN BY GAF, COMPLIANCE
ATTAINED.

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (*Section II*) information on the first page of this form.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APR 28 1980

REGION VII
324 EAST ELEVENTH STREET
KANSAS CITY, MISSOURI - 64106CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Murray Sherman
Plant Manager, GAF Corporation
9215 Riverview Drive
St. Louis, Missouri 63137

Dear Mr. Sherman:

Docket No. VII-79-W-02

We have reviewed the actions taken by the GAF Corporation (GAF) in response to the Administrative Order issued on February 26, 1979. Each provision of the Order is discussed below:

Requirement 1: That GAF Corporation, 9215 Riverview Drive, St. Louis, Missouri cease discharging the toxic pollutant asbestos from outfall 002 and any other source under their authority contributing to the presence of asbestos in Maline Creek.

All discharges, including discharge 002, have been eliminated and all asbestos containing wastes have been isolated, thereby complying with this requirement. All necessary steps should be taken to insure that the asbestos containing wastes continue to be isolated in the future.

Requirement 2: That GAF Corporation comply with the sample collection procedures and reporting requirements of NPDES Permit No. MO 0000779.

This requirement became moot with the elimination of all point source discharges.

Requirement 3: That GAF Corporation comply with the sample collection and monitoring procedures for records keeping, permit limitations and reporting as required by NPDES Permit No. MO 0000779.

This requirement became moot upon termination of the NPDES discharge permit.

Requirement 4: That GAF Corporation remove asbestos contaminated material from the drainage ditch both upstream and downstream from discharge 002.

The asbestos contaminated materials were not removed from the drainage ditch upstream and downstream from discharge 002. However, our inspector concluded that all asbestos material had been covered and was no longer a threat to the environment. We consider this action to be satisfactory compliance with the Order as long as the cover is properly maintained.

COPY

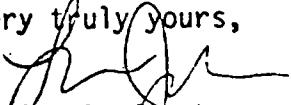


Requirement 5: That GAF Corporation isolate asbestos contaminated material present in the waste piles on the facility site.

As noted above, all asbestos contaminated materials were found to have been effectively isolated.

The Environmental Protection Agency considers that you have satisfactorily complied with the terms of the Order and anticipates no further action in this matter.

Very truly yours,


Louise D. Jacobs
Director, Enforcement Division

cc: James P. Odendahl, Director
Division of Environmental Quality
Missouri Department of Natural Resources

C.F. Bien
GAF Corporation
1361 Alps Road
Wayne, New Jersey 07470



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APR 28 1980

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COPY



MISSOURI DEPARTMENT OF NATURAL RESOURCES

8460 Watson Road St. Louis, Missouri 63119 (314) 849-1313

3,600 St. Louis County
GAF-Certainteed Company Asbestos Dump ✓

June 2, 1980

Mr. John P. McGinley
Vice President, Manufacturing,
A-C Pipe Division
Certainteed Corporation
P.O. Box 860
Valley Forge, PA 19482

Dear Mr. McGinley:

This is to advise that we have completed our staff review of the project to stabilize the asbestos waste pile located at the Certainteed Corporation plant site in St. Louis County, Missouri.

The results of our latest inspection of the site conducted on May 13, 1980 confirm that the project has been completed in basic conformance with the approved plans and specifications as prepared by the consultant, Reitz & Jens, Inc. The inspector was satisfied that the necessary work has been accomplished in terms of the specified grading, covering and vegetative growth establishment provisions, as well as installation of the stream bank rip-rap and storm water drainage appurtenances. Verification of the closure plat to be filed with the County Recorder of Deeds Office has also been received in this office.

Based upon these determinations, it is our judgement that the Certainteed Corporation has taken the necessary actions to stabilize the asbestos waste pile and thereby restore the site to a condition in which it no longer poses a threat of contamination to the water or air resources of the state.

We again thank Certainteed Corporation personnel for their cooperation in resolving this matter in good order.

Sincerely,

Earl F. Holtgraewe

Earl F. Holtgraewe, P.E.
Regional Administrator
St. Louis Regional Office
Department of Natural Resources

EFH/MJ/dak

CC: Reitz & Jens, Inc.
Environmental Protection Agency, Region VII
Metropolitan St. Louis Sewer District
Central Office, Solid Waste Management Program

Joseph P. Teasdale Governor

Fred A. Lafser Director
St. Louis Regional Office

CERTAINTEED CORP.

LANDFILLS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION

Answer and Explain --
as Necessary.

1. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.)

YES NO SMALL STRETCH ALONG CRK. BANK HAS EXPOSED WASTES - SEE SECT. VII WITHIN

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFILL

YES NO

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK

YES NO

N/A

4. WASTES SURROUNDED BY SORBENT MATERIAL

YES NO

N/A

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED

YES NO

6. EVIDENCE OF PONDING OF WATER ON SITE

YES NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING

YES NO

8. ADEQUATE LEACHATE COLLECTION SYSTEM (If "Yes", specify Type)

YES NO

N/A

8a. SURFACE LEACHATE SPRING

YES NO

9. RECORDS OF LEACHATE ANALYSIS

YES NO

N/A

10. GAS MONITORING

YES NO

N/A

11. GROUNDWATER MONITORING WELLS

YES NO

N/A

12. ARTIFICIAL MEMBRANE LINER INSTALLED

YES NO

N/A

13. SPECIFIC CONTAINMENT MEASURES (Clay Bottom, Sides, etc.)

YES NO

SEE # 16 BELOW

14. FIXATION (Stabilization) OF WASTE

YES NO

N/A

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY

YES NO

16. COVER (Type)

CLAY - SILT SOILS WITH SECURE VEGET. GROWTH

16a. THICKNESS

12" MIN. CAP OVER ENTIRE SITE

16b. PERMEABILITY

N/A

16c. DAILY APPLICATION

YES NO

N/A